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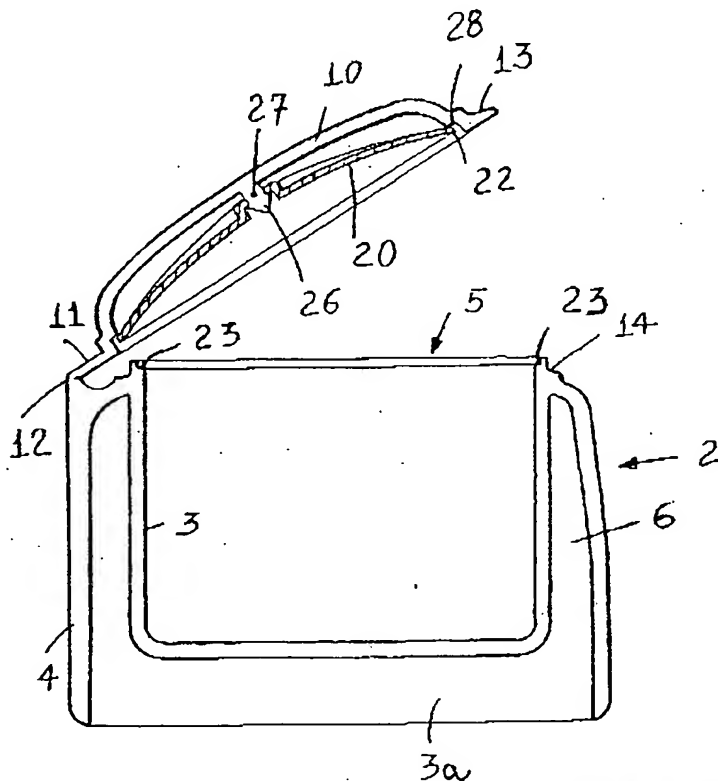
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(54) Title: JAR FOR COSMETIC AND PHARMACEUTICAL CREAMS



(57) Abstract: The present invention relates to a jar (1) for cosmetic and pharmaceutical creams, which comprises a holding body (2), defining, in a single piece, an inner vessel (3) and an outer mantle (4) extending from the mouth (5) of the inner vessel (3) and ending under the bottom (3a) of the inner vessel (3) to provide a gap (6) encompassing the outside of the inner vessel. Advantageously a closure cover (10) to be applied for closing said mouth (5) is moreover provided.

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Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM).
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Description

JAR FOR COSMETIC AND PHARMACEUTICAL CREAMS

BACKGROUND OF THE INVENTION

5 The present invention relates to a jar which has been specifically designed for cosmetic and pharmaceutical creams.

 As is known, in the cosmetic and pharmaceutical field are at present broadly used
10 containers or jars which, in addition to properly folding therein the cosmetic or pharmaceutical cream or the like, must also properly protect the product.

 In particular, are at present commercially available cosmetic products, such as creams and the
15 like, which must be tightly protected against the light and heat, in order to prevent the product from being spoiled.

 In order to solve the above mentioned problems, prior jars for the above mentioned use
20 conventionally comprise an outer body, having an inner cavity, in which is arranged an inner vessel.

 The latter is made separately from the outer vessel, thereby defining a gap encompassing the inner vessel which operates as a protective element.

25 Such an arrangement is, however, very expensive, since it provides to use two different separated vessels.

 Moreover, the handling of the inner vessel, during the filling-in of the product, is very
30 critical.

 Another problem affecting prior containers or jars, is that they require an undercover closure,

which, practically, consists of a washer element.

The latter operates to close the inner vessel and must be separately removed from the cover, thereby two different operations are required.

5 Furthermore, the above mentioned washer element hinders a proper packaging and use of the product.

SUMMARY OF THE INVENTION

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Accordingly, the aim of the present invention is to overcome the above mentioned drawbacks, by providing a jar, specifically designed for cosmetic and pharmaceutical creams, having a
15 greatly simplified construction, without negatively affecting its technical and functional characteristics.

Within the scope of the above mentioned aim, a main object of the present invention is to
20 provide such a jar, in which the removal and handling of the undercover washer element is very simple, thereby facilitating any related operations.

Another object of the present invention is to provide such a jar, specifically designed for
25 cosmetic and pharmaceutical creams, which, owing to its specifically designed constructional characteristics, is very reliable and safe in operation.

Yet another object of the present invention
30 is to provide such a jar which can be easily made starting from easily available elements and materials and which, moreover, is very competitive from a mere

economic standpoint.

According to one aspect of the present invention, the above mentioned aim and objects, as well as yet other objects, which will become more apparent hereinafter, are achieved by a jar specifically designed for cosmetic and pharmaceutical creams, characterized in that said jar comprises a holding body, defining, in a single piece, an inner vessel and an outer mantle, said outer mantle extending from the mouth of the inner vessel and ending under the bottom of the inner vessel to provide a gap encompassing the outside of said inner vessel, a closure cover to be applied for closing said mouth being moreover provided.

15

BRIEF DESCRIPTION OF THE DRAWINGS

Further characteristics and advantages of the present invention will become more apparent hereinafter from the following detailed disclosure of a preferred, though not exclusive, embodiment of a jar specifically designed for cosmetic and pharmaceutical creams, which is illustrated, by way of an indicative, but not limitative, example, in the figures of the accompanying drawings, where:

Figure 1 is a perspective exploded view illustrating the jar according to the invention in an opened position thereof;

Figure 2 is a further perspective view illustrating the jar with its cover being opened, and its washer element so arranged as to close the mouth of said jar;

Figure 3 is a side cross-sectional view showing the jar, in an opened position thereof;

Figure 4 is a schematic cross-sectional view illustrating the jar in a closed position thereof; and

Figure 5 is a partial side view of the jar according to the present invention.

DESCRIPTION OF THE PREFERRED EMBODIMENT

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With reference to the number references of the above mentioned figures, the jar specifically designed for cosmetic and pharmaceutical creams, according to the invention, which is generally indicated by the reference number 1, comprises a holding body 2, defining, in a single piece, an inner vessel 3 and an outer mantle 4, extending from the mouth 5 of the inner vessel and ending under the bottom 3a of said inner vessel, thereby providing a gap 6 encompassing the outside of the inner vessel.

20

This embodiment provides the subject jar with a very high mechanical strength, together with the possibility of forming a gap, which, in turn, provides a very good protection both for heat and light.

25

The mouth 5 is closed by a cover 10 which is advantageously made in a single body with the jar and comprises a lug 11, with a weakened line 12, for connecting it to the top edge of the outer mantle 4.

30

Arranged diametrically on the cover 10 is provided a gripping tongue 13 which, with the cover in a closed condition, is advantageously arranged

near a cut-out 14 formed on the top portion of the mantle 4.

Another very important feature of the invention is that an undercover washer element 20 is provided, said undercover washer element having a central body 21 connected with a perimetrical lip 22 operating as a gasket and housed in an undercut step 23, formed at the top portion of the mouth 5 of the holding body 2.

The undercover 20 is provided with an axially extending opening 25, in which can be engaged the enlarged head 26 of a peg 27, which is made as a single body with the cover.

The above disclosed arrangement allows the undercover 20 to be easily applied to tightly close the mouth 5, and this also owing to the fact that it is arranged under an abutment edge or rim 28, formed on the inner surface of the cover 10.

As the cover 10 is opened, also the undercover 20 is opened, thereby fully opening, by a single operation, the jar.

Moreover, this arrangement provides the great advantage that no undercover washer must be positioned, which would risk to soil the jar surfaces.

From the above disclosure, it should be apparent that the invention fully achieves the intended aim and objects.

In particular, the invention provides a jar, specifically designed for cosmetic and pharmaceutical creams, which can be advantageously made of polypropylene or other plastics materials

suitable for the product packaged in said jar.

The jar, moreover, provides a suitable protection for the product held therein, while having a very simple construction.

5 Another important feature of the invention, moreover, is that the jar is made as a single piece.

 Furthermore, the undercover element is interconnected to the cover, thereby it can be opened and closed without the need of directly handling it,
10 but by simply exploiting the opening and closing movements of the cover.

The invention, as disclosed, is susceptible to several modifications and variations, all of which will come within the scope of the invention.

15 Moreover, all of the constructional details can be replaced by other technically equivalent elements.

 In practicing the invention, the used materials, as well as the contingent size and shapes,
20 can be any, depending on requirements.

CLAIMS

1. A jar specifically designed for cosmetic and pharmaceutical creams, characterized in that said
5 jar comprises a holding body, defining, in a single piece, an inner vessel and an outer mantle, said outer mantle extending from the mouth of the inner vessel and ending under the bottom of the inner vessel to provide a gap encompassing the outside of
10 said inner vessel, a closure cover to be applied for closing said mouth being moreover provided.

2. A jar, according to the preceding claim, characterized in that said cover is made in a single piece with said holding body.

15 3. A jar, according to one or more of the preceding claims, characterized in that said jar comprises a lug with a weakened line for pivotably coupling said cover to said holding body.

4. A jar, according to one or more of the
20 preceding claims, characterized in that at the top edge of the outer mantle, diametrically of said lug, is provided a cut-out for facilitating an access to the cover opening tongue.

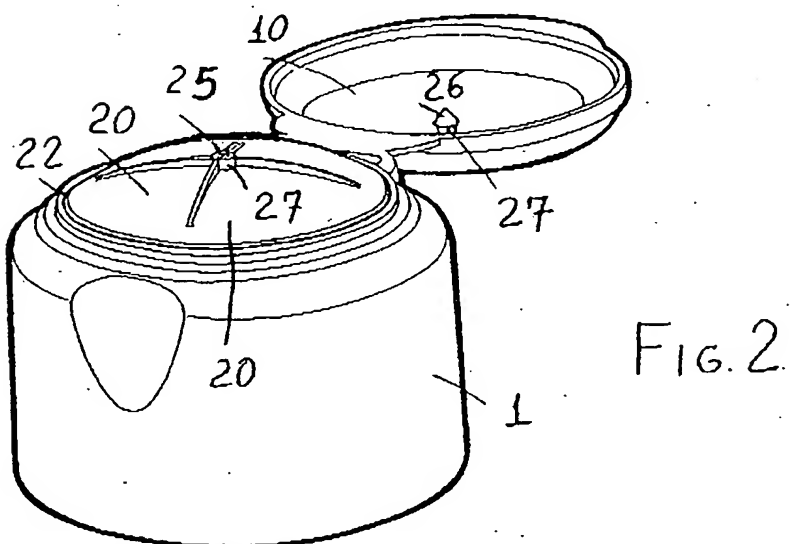
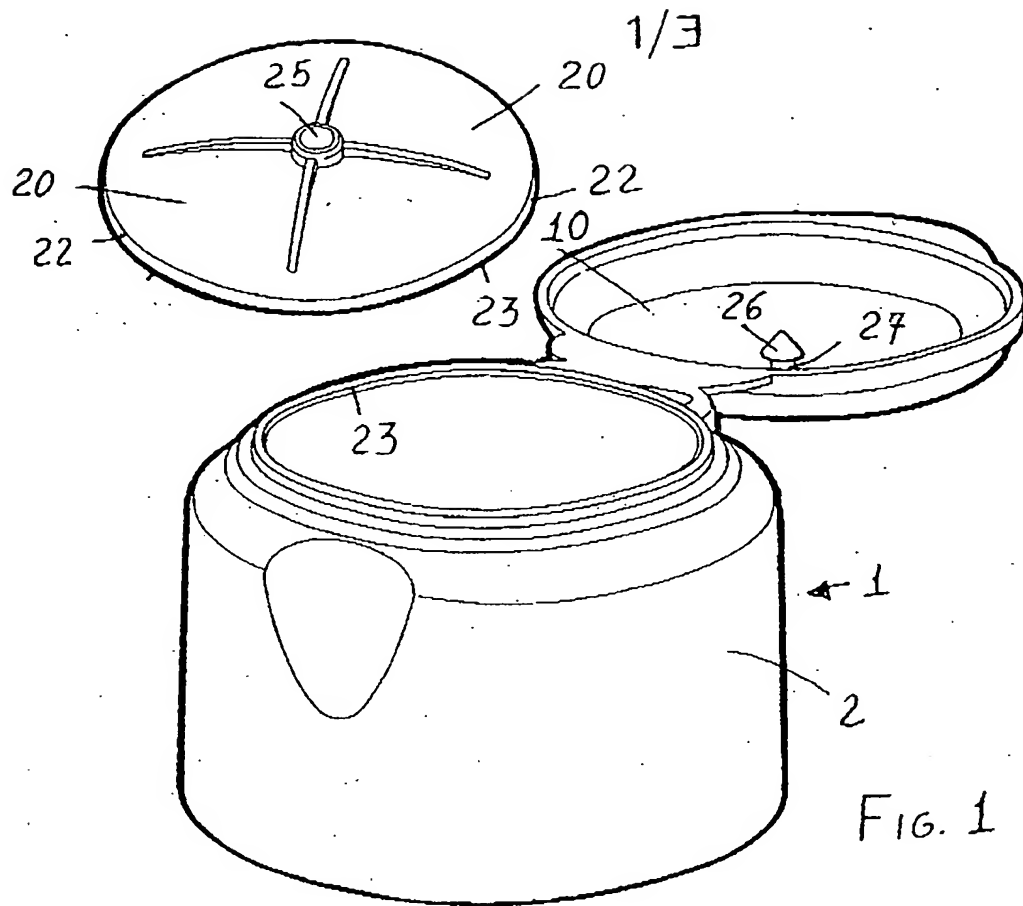
5. A jar, according to one or more of the
25 preceding claims, characterized in that said jar comprises an undercover washer element, operatively coupled to said cover.

6. A jar, according to one or more of the
30 preceding claims, characterized in that said undercover washer element comprises a convex central portion ending in a perimetrical lip operating as a gasket and housed in an undercut step formed at the

top portion of said mouth.

7. A jar, according to one or more of the preceding claims, characterized in that said undercover washer element comprises a throughgoing
5 hole engaging with an enlarged head of a peg rigid with said cover.

8. A jar, specifically designed for cosmetic and pharmaceutical creams, according to one or more of the preceding claims, and substantially as
10 broadly disclosed and illustrated and for the intended aim and object.



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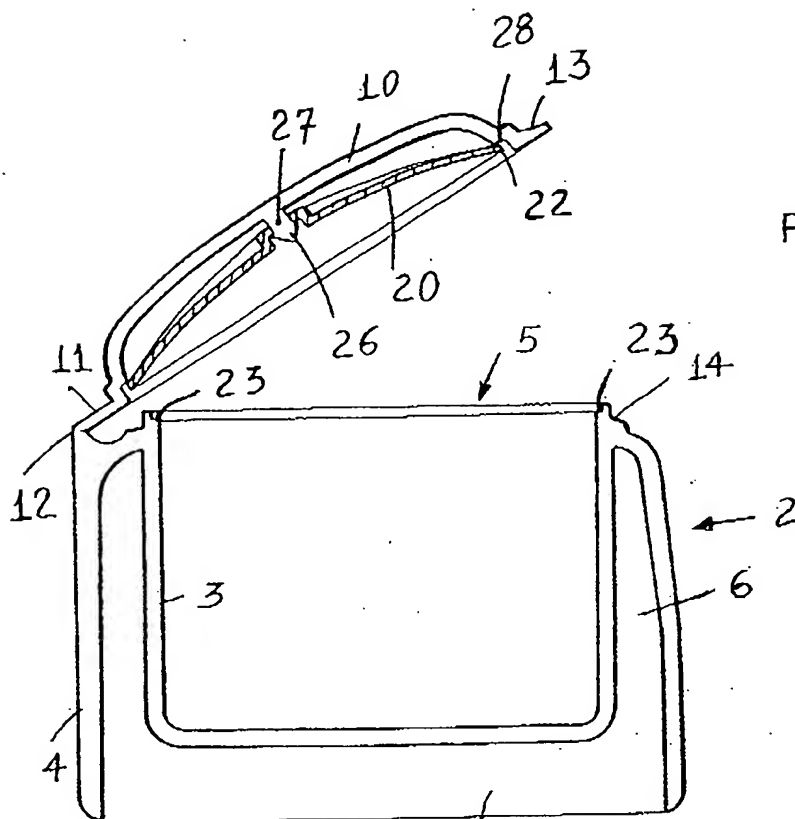


FIG. 3

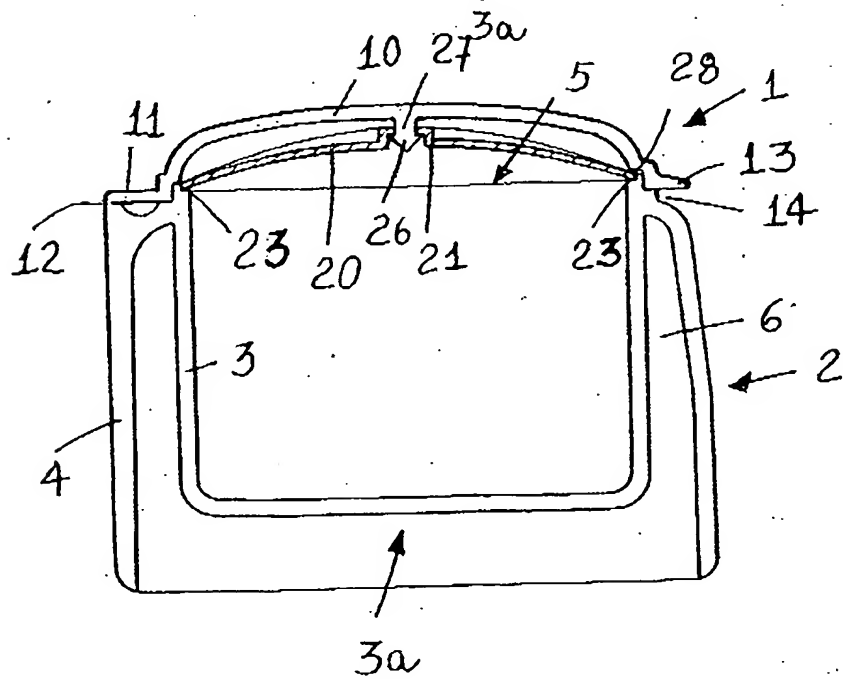


FIG. 4

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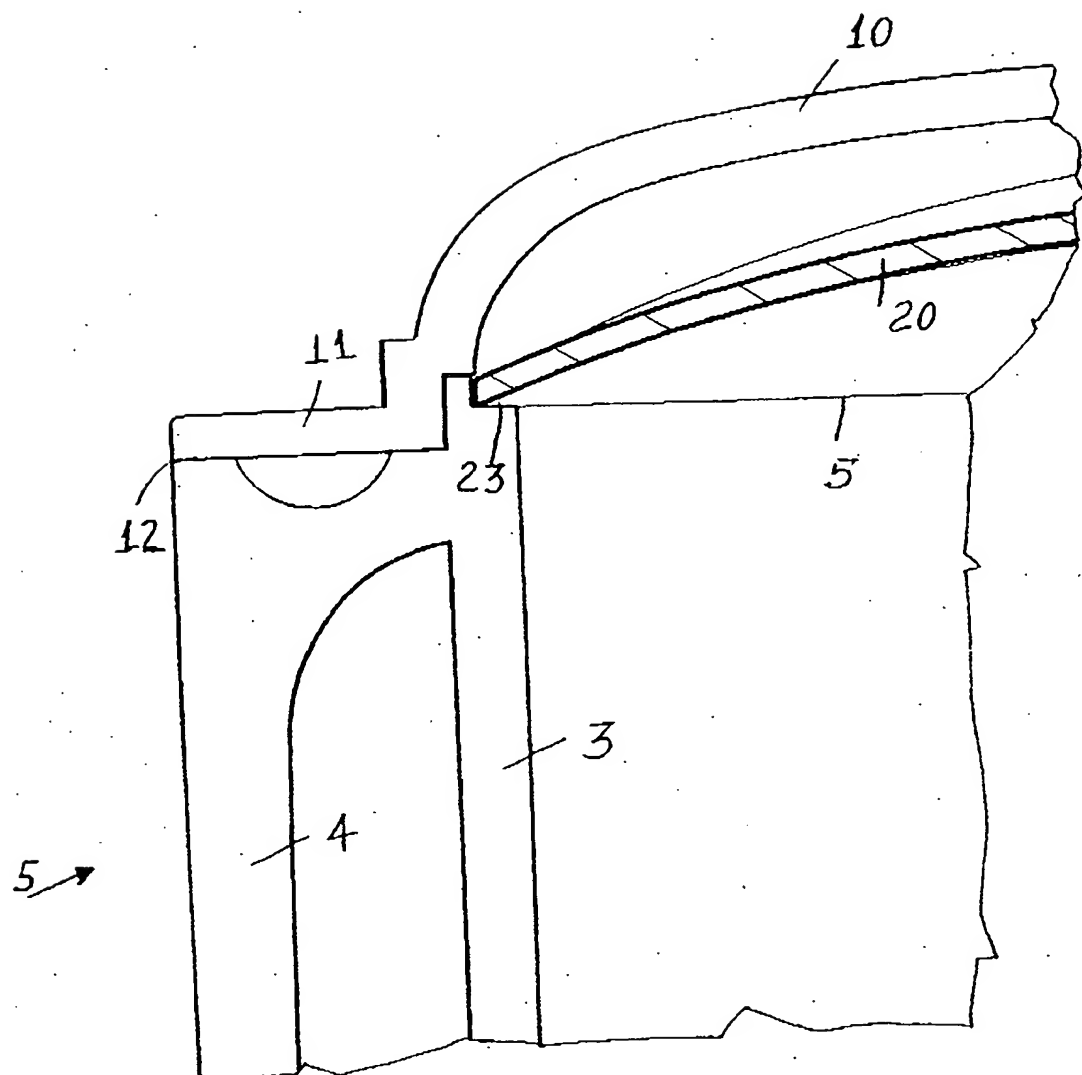


FIG. 5

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/IT 02/00081

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 A45D40/00 A45D40/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A45D A45C B65D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01 72167 A (OREAL ; SEBBAN JACQUES (FR)) 4 October 2001 (2001-10-04) page 7, line 20 - page 8, line 19 ---	1-4, 8
X	DE 299 18 252 U (LOUVRETTE GMBH VERPACKUNG & DE) 15 March 2001 (2001-03-15) page 5, line 18 - page 8, line 15; figure 5 ---	1, 5, 6, 8
A	DE 42 16 632 A (SCHWENKER JOERG) 25 November 1993 (1993-11-25) column 2, line 22-47 -----	7

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IT 02/00081

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0172167	A	04-10-2001	FR	2806893 A1	05-10-2001
			AU	4662701 A	08-10-2001
			WO	0172167 A1	04-10-2001
DE 29918252	U	15-03-2001	DE	29918252 U1	15-03-2001
DE 4216632	A	25-11-1993	DE	4216632 A1	25-11-1993
			DE	4301518 A1	28-07-1994

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